

Darwin.

On the ground that he was doing no good at school, Darwin's father took him away at an earlier age than usual, and sent him to Edinburgh University, where he stayed for two years or sessions. It was hoped at this time that he would become a physician, but the boy's inclinations did not lie in that direction. He found the lectures on human anatomy dull, and the subject disgusted him. On two occasions he attended the operating theatre in the hospital at Edinburgh, and saw two very interesting operations, but he rushed away before they were completed, and felt that hardly any inducement would have been strong enough to make him attend again.

IV.

In beginning his chapter on Religion, Mr. Francis Darwin reminds us that his father in his published works was reticent on the matter of religion, and that what he has left on the subject was not written with a view to publication. Mr. Francis Darwin believes that his father's reticence arose from several causes. He says strongly that a man's religion is an essentially private matter, and one concerning himself alone. This is indicated by the following extracts from a letter of 1870: "What my own views may be is a question of no consequence to any one but myself. But as you ask,

the individuals of any species were habitually to suffer to an extreme degree, they would have been properly eliminated, but he has no reason to believe that this has ever at least often, occurred. Some other considerations, moreover, lead to the belief that all sentient beings have been formed so as to enjoy, as a general rule, happiness." Darwin goes on to aver that every one who believes, as he does, "that all the corporeal and mental organs (excepting those which are merely advantageous or disadvantageous to the individual) have been formed and developed through natural selection for the survival of the fittest, together with use or habit, will admit that these organs have been formed

VI.
The substance of these extracts from Darwin's Autobiography is repeated and emphasized in letters from which we make the following excerpt: Writing to Mr. W. Graham, in 1881, he says, apropos of the Creed of evolution, "It is very long that since the book has interested me much. The work must have cost you several years and much hard labor with full leisure to work. There are some points in your book which I cannot digest. The chief one is that the existence of so-called natural laws implies purpose. I cannot do that. Not to mention that many of the facts that you quote are not as you have found to follow inevitably from some one single law, yet taking the laws as we now know them, and looking at the moon where the law of gravitation, the law of the conservation of energy and the law of the atomic theory, hold good, I cannot see that there is necessarily any purpose. Would the purpose if the lower organisms alone, destitute of consciousness, existed in the moon? But," adds Darwin, with humility, "I have had no practice in abstract reasoning, and may be all astray. Nevertheless, you have expressed my inward conviction, and though far more vividly and clearly than I could do, that there is not, and not the result of chance. But then with me the horrid doubt always arises whether the convictions of man's mind, which have been developed from the minds of the lower animals, are of any value at all trustworthy. Would any one trust in the convictions of a monkey's mind, for example? Certainly not if he knew such a mind? Secondly, I think that I could make somewhat of a case against the enormous importance which you attribute to our greatest men; I have been accustomed to think second, third, and fourth rate men of very high importance; at least, in the case of civilization. I think that the selection of the few having done and doing more for the progress of civilization than you seem inclined to admit. Remember what risk the nations of Europe ran not so many centuries ago of being overwhelmed by the Turks and how ridiculous such an idea now seems. The more civilized nations, Italy, France, Spain, have been the Turkish hollow in the structure of the empire. Looking to the world at no very distant

and would ten say in a satisfied voice, "I've done a good day's work." He then went out of doors whether it was wet or fine. His mid-day walk generally began by a call at the greenhouse, where he looked at any experimental plants which required only a casual inspection. He then went to the botanical library, in which he was always accompanied by a favorite dog. Then came luncheon, and apropos of it his son tells us something about his meals generally. It seems that Darwin had a boy-like love of sweets, unhelpfully for himself, since he was forbidden to take them. He was particularly susceptible to the keeping of tarts, and he would tell them while he made against eating sweets, and never considered them binding unless he made them aloud. He drank very little wine, but enjoyed and was revived by the little he did drink. He had a horror of excessive drinking, and constantly warned his boys that they might lead to it. His son Francis remembers how, in his innocence as a small boy, he asked him if he had ever been tipsy; his father answered very gravely that he was ashamed to say he had once drunk too much at Cambridge. After his luncheon Darwin would read the newspaper, trying to get through the news columns. His newspaper was the only non-scientific matter which he read to himself. Everything else, novels, travels, history, was read aloud to him. He took so wide an interest in life that there was much to occupy him in the daily journals. His interest in politics was considerable, but his opinions on these matters were formed rather hastily than with any serious amount of thought. After he had read his paper came his time for writing letters. He made a rule of keeping all letters that he received; this was a habit which he learned from his father, and which he said had been of great use to him. Many letters were written to him by his friends, and to various people, rat all of these received replies. He used to say that if he did not answer them he had it on his conscience afterwards, and no doubt it was in a great measure the courtesy with which he answered every one that produced the widespread sense of his kindness of nature which was so evident in his correspondence. He was very kind to his correspondents in lesser things; for instance,

tures, as if he were blind to the artistic quality in a painted portrait. But such things were generally said in his attempts to persuade his children to give up the idea of having his portrait painted, an operation very irksome to him. His attitude toward art and literature was in all matters of art and literature, even by the absence of pretence which was part of his character. Nevertheless, with regard to questions of taste, as well as to more serious things, he had the courage of his opinions.

Much of his scientific reading was in German, and this was a serious labor to him. His son says that in reading a book at him in German has been often struck, at seeing from the pencil marks made each day where he left off, how little his father could read at a time. Darwin used to call German the "Verdammt," pronounced as in English. He was especially fond of German because he was so convinced that the country which he had chosen, and often praised a certain professor for writing German which was as clear as French. He himself learned German by hammering away with a dictionary: he would say that his only way was to read a sentence a great many times over, and at last the sentence would be called to mind. He was once, as he boasted of the fact, once used to tell to Sir J. Hooker, who replied: "Ah, my dear fellow, that's nothing; I have begun it many times." In spite of his want of acquaintance with the grammar, Darwin managed to get on wonderfully with German, and the sentences which he called to mind were generally difficult ones. His attempts to speak German correctly, but pronounced the words as if they were English. He unquestionably had a bad ear for vocal sounds, so that he found it impossible to detect small differences in pronunciation.

We should mention finally that his wide interest in the sciences, and that which was especially his own was remarkable. In the biological sciences, his doctrines made themselves felt so widely that there was something interesting to him in most departments. He read a good deal of quite special works and large parts of text books, where the detail, at any rate, was not in his own line. He was especially interested in the monerish tree, though he did not make

[illegible]